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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/041,033	12/28/2001	Jin Yang	PA2090US	2586
22830	7590	03/24/2005	EXAMINER	
CARR & FERRELL LLP 2200 GENG ROAD PALO ALTO, CA 94303			MCLEAN MAYO, KIMBERLY N	
			ART UNIT	PAPER NUMBER
			2187	

DATE MAILED: 03/24/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/041,033	Applicant(s) YANG ET AL.	
	Examiner Kimberly N. McLean-Mayo	Art Unit 2187	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on December 28, 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-37 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-37 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 19 March 2002 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. The enclosed detailed action is in response to the Application submitted on December 28, 2001.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1-37 are rejected under 35 U.S.C. 102(e) as being anticipated by Chinchar et al. (USPN: 6,675,178).

Regarding claims 1, 10, 19, 25, 28-30 and 36-37, Chinchar discloses a data cache (comprised of the logic elements in Figure 1, which performs the scan and update operations) coupled to a first set of data (data stored in Figure 1, Reference 10) and a second set of data (data stored in Figure 1, Reference 30) and configured to perform a scan operation on at least of portion of the first set of data and an update operation on the second set of data with changes that have occurred in the first set of data (Figure 3, (all steps); Figure 5, Steps 10-38); an engine manager coupled to the data cache and configured to instruct the data cache to perform the scan and update operations (logic in the system which initiates the above steps in Figure 3 and Figure 5; C 8, L 46-53; C 9, L 5-8); and a solver (Figure 1, References 22, 24, 26 and 28) coupled to the data cache and configured to perform computations on the second set of data (Figure 4 (all steps); Figure 5, Step

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40). Additionally, regarding claim 37, all hardware systems include software (instructions on a computer readable medium) to control the hardware elements of the system.

Regarding claims 2, 11 and 19, Chinchar discloses an application specific plug-in coupled to the solver to perform the computations on the second set of data (the system software used to control elements 22, 24, 26 and 28 in Figure 1).

Regarding claims 3, 12, 20 and 31, Chinchar discloses the system configured to update the second set of data with substantially no more than the changes to the first set of data (C 9, L 1-18; C 11, L 17-54).

Regarding claims 4, 13, 21, 32 and 34, Chinchar discloses the system configured to update the second set of data with changes to the first set of data in a near real-time fashion (C 11, L 55-63).

Regarding claims 5, 14, 22 and 33, Chinchar discloses the system is configured to update the second set of data with substantially no more than the changes to the first set of data that meet a given condition (C 9, L 1-18; C 11, L 17-54; condition -> data which has been changed since the last update).

Regarding claims 6, 15 and 23, Chinchar discloses the data cache coupled to a first set of data and a second set of data in a bidirectional fashion (C 4, L 54-55; C 10, L 64-67).

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Regarding claims 7, 16 and 24, Chinchar discloses the first set of data comprising metadata (Figure 1, Reference 14, configuration data) and application data (Figure 1, Reference 12; transactional data).

Regarding claims 8, 17 and 26, Chinchar discloses the solver comprising a generic algorithms module (C 5, L 10-67; C 6, L 1-23).

Regarding claims 9, 18, 27 and 35, Chinchar discloses the computations solving problems encountered in business applications (C 3, L 11-25; C 4, L 66-67; C 5, L 1-3).

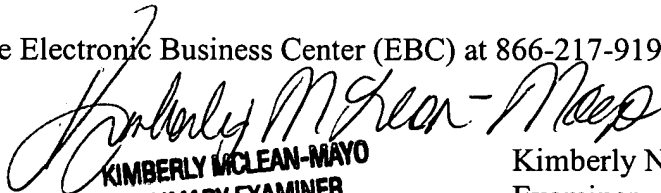
Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kimberly N. McLean-Mayo whose telephone number is 703-308-9592. The examiner can normally be reached on Tues, Thr, Fri (10:00 - 6:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Donald Sparks can be reached on 703-308-1756. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



KIMBERLY MCLEAN-MAYO
PRIMARY EXAMINER

Kimberly N. McLean-Mayo
Examiner
Art Unit 2187

KNM

March 19, 2005